35.    (NEW) A method of displaying a program progress time on a signal receiver

which receives and processes program guide information containing a program schedule, the

method comprising:

storing the program guide information; and

displaying time information about a currently viewed program together with the currently

viewed program when a user issues a display command, the time information comprising a

beginning time with respect to the currently viewed program.


## REMARKS

### INTRODUCTION:

Reconsideration of this application, as presently amended, is respectfully requested.

Claims 1, 3-18, 20-31 and 33-35 are pending in this application. Claims 1, 3-4, 13, 17, 23, 25-

26, 28, 31 and 33-34 have been amended, claim 35 has been added, and claims 2, 19 and 32

have been canceled without prejudice or disclaimer.


### REJECTIONS IN VIEW OF 35 U.S.C. §102:

At pages 2-9, item 2, of the Office Action, claims 1-7, 10-24 and 28-34 are rejected under

35 U.S.C. §102 as being anticipated by U.S. Patent No. 5,727,060 to Young et al.

Independent claim 1 recites "displaying the time information about the currently viewed

program together with the currently viewed program...the information comprising a beginning

time with respect to the currently viewed program." Thus, the invention of claim 1 displays time

information including a beginning time together with the currently viewed program.

The Examiner points to FIGS. 6 and 10 of Young et al., and the corresponding

disclosure, as disclosing these features of the invention of claim 1. However, it is noted that

neither FIG. 6 nor FIG. 10 disclose all of the features of the invention of claim 1. FIG. 6 of this reference discloses a scheduled grid screen 20, which occupies the entire television screen, and is therefore not displayed together with the currently viewed program. FIG. 10 displays overlay 66, which displays information pertinent to the currently viewed program, but does not display a beginning time of the currently viewed program.

For the above reasons, Young et al. does not disclose all of the features of claim 1.

Claims 3 and 4 depend from claim 1, and further recite that the time information comprises "a program terminating time of the currently viewed program" and "a current time with respect to the currently viewed program," respectively. However, for similar reasons as noted above, FIG. 6 of Young et al. does not display this information together with the currently viewed program, and FIG. 10 of this reference does not display this information at all.

Claim 6 depends from claim 1 and further recites "the time information further comprises a remaining program time determined by subtracting the current time from the program terminating time." The Examiner relies upon the calibrated time bar 72, shown in FIG. 10 of Young et al., as disclosing this feature of claim 6. However, the calibrated time bar 72 is merely a graphical representation of elapsed time. Thus, this feature of Young et al. does not directly display remaining program time, and the viewer is burdened with the task of determining the remaining time on his own.

Based upon the above, withdrawal of the rejections of claim 1, and claims 3-6 and 10-11 depending therefrom, is requested. Independent claims 13, 17, 28, 31, 33 and 34 recite similar features.

Independent claim 7 recites "displaying next program information when the remaining program time reaches a preset time." Thus, the triggering event in displaying the next program information is the onset of a preset time. The Examiner relies upon column 24, lines 3-13 of Young et al. as disclosing this feature. However, this portion of Young et al. does not disclose

that the triggering event in displaying next program information is the reaching of a preset time.

Young et al. merely discloses changing the range of times within which program information

will be displayed, namely, the three hour default time may be changed to a different time period.

This feature of Young et al. relates to the length of a time period for a display, not the triggering

event which causes the display to be displayed. In Young et al., the triggering event for display

is the command from a user, not the onset of a preset time. Accordingly, withdrawal of the

rejection of claim 7 is requested.

Claims 12, 21, 22, 27, 29, 30 and 31 recite similar features. Accordingly, withdrawal of

these claims, and all claims depending therefrom, is requested.

## REJECTIONS IN VIEW OF 35 U.S.C. §103:

In the Office Action at pages 10-11, item 4, claims 8-9 and 25-27 were rejected under 35

U.S.C. §103(a) as being unpatentable over Young et al. in view of U.S. Patent No. 5,542,088 to

Jennings, Jr. et al. This rejection is respectfully traversed in view of the following arguments.

Claims 8-9 depend from claim 1 and are therefore distinguishable from Young et al. for

at least the above reasons.

Jennings, Jr. et al. does not overcome the deficiencies in Young et al. and is not relied

upon by the Examiner as such. Instead, the Examiner relies upon Jennings, Jr. et al. as

disclosing a percentage calibrated time bar for indicating the percentage of the progressive

program. Accordingly, withdrawal of the rejection of claims 8-9 is requested.

Claim 25 depends from claim 17, which discloses displaying program progress time

including a current time, simultaneously with the currently viewed program, and is therefore

patentable over the combination of Young et al. and Jennings, Jr. et al. for similar reasons as

noted above.

Independent claim 26 recites displaying a program progress time including a program

beginning time, a current time, and a program terminating time simultaneously with the currently viewed program. As discussed above with respect to claims 17 and 25, Young et al. does not include these features.

Accordingly, withdrawal of the rejection of claim 26 is requested.

Independent claim 27 recites "to display the program progress time automatically at a present time." This feature is not disclosed by Young et al. for similar reasons as noted above. Jennings, Jr. et al. does not overcome these deficiencies. Accordingly, withdrawal of the rejection of claim 27 is requested.

## NEW CLAIM:

New claim 35 is added and recites "displaying time information about a currently viewed program together with the currently viewed program when a user issues a display command, the time information comprising a beginning time with respect to the currently viewed program." Accordingly, new claim 35 is patentable over the Examiner's cited references.

## CONCLUSION:

In view of the foregoing amendments and remarks, it is respectfully submitted that each of the claims patentably distinguishes over the prior art, and therefore defines allowable subject matter. A prompt and favorable reconsideration of the rejection along with an indication of allowability of all pending claims are therefore respectfully requested.

Entry of this Rule 116 Response is requested because the claim amendments should not entail any further search by the Examiner and no new issues are being raised; and the amendments do not significantly alter the scope of the claims and place the application at least into a better form for purposes of appeal.

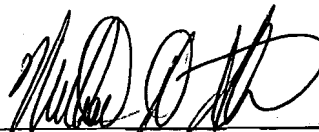Should there be any remaining questions to correct formal matters, it is urged that the

Examiner contact the undersigned at his convenience for a telephone interview to expedite and

complete prosecution.

Please charge any fees or credit any overpayment pursuant to 37 CFR 1.16 or 1.17 to

our Deposit Account No. 19-3935.

Respectfully submitted,
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## VERSION WITH MARKINGS TO SHOW CHANGES MADE

Although all claims have not been amended hereby, all pending claims are set forth

below for the Examiner's convenience.

Please **CANCEL** claims 2, 19 and 32 without prejudice or disclaimer.  Please

**AMEND** claims 1, 3-4, 13, 17, 23, 25-26, 28, 31 and 33-34 as follows:


1.      (TWICE AMENDED)  A method of displaying a program progress time on a

signal receiver which receives and processes program guide information containing a program

schedule, comprising the steps of:

(a)      storing the program guide information;

(b)      setting a command of the signal receiver which is commonly usable by a user as

a display command to display time information about a currently viewed program; and

(c)      displaying the time information about the currently viewed program together with

the currently viewed program when the user issues the display command set in said step (b),

the time information comprising a beginning time with respect to the currently viewed

program.


3.      (ONCE AMENDED) A method of displaying a program progress time as

claimed in claim 1, wherein the time information further comprises [is] a program

terminating time of the currently viewed program.


4.      (TWICE AMENDED)  A method of displaying a program progress time as

claimed in claim [2] 3, wherein the time information further comprises [a beginning time and] a

current time with respect to the currently viewed program.

5.      (AS FILED)  A method of displaying a program progress time as claimed in claim 4, wherein the time information includes the program progress time determined by subtracting the beginning time from the current time.

6.      (AS FILED)  A method of displaying a program progress time as claimed in claim 5, wherein the time information further comprises a remaining program time determined by subtracting the current time from the program terminating time.

7.      (AS ONCE AMENDED)  A method of displaying a program progress time on a signal receiver which receives and processes program guide information containing a program schedule, comprising:

storing the program guide information;

displaying time information about a currently viewed program on the signal receiver when a user issues a display command; and

displaying next program information when the remaining program time reaches a preset time.

8.      (AS FILED)  A method of displaying a program progress time as claimed in claim 7, wherein the time information further comprises a percentage of the program progress time as compared with a total program broadcasting time calculated by subtracting the beginning time from the program terminating time.

9.      (AS FILED)  A method of displaying a program progress time as claimed in claim 8, wherein the time information further comprises a percentage of the remaining program time

as compared with the total program broadcasting time.

10.    (AS ONCE AMENDED)  A method of displaying a program progress time as claimed in claim 1, wherein the commonly usable command of the signal receiver is a command for a channel up/down.

11.    (AS ONCE AMENDED)  A method of displaying a program progress time as claimed in claim 1, wherein the commonly usable command of the signal receiver is a command for a remote controller event.

12.    (AS ONCE AMENDED)  A method of displaying a program progress time on a signal receiver which receives and processes program guide information containing a program schedule, comprising:

storing the program guide information;

displaying time information about a currently viewed program on the signal receiver when a user issues a display command set; and

judging that the command for displaying the program progress time is

issued by the user so as to display the program progress time at a preset time set by the user prior to a program terminating time of the currently viewed program.

13.    (TWICE AMENDED)  A method of displaying a program progress time in a signal receiver which receives and processes program guide information containing a program schedule, comprising the steps of:

receiving and storing the program guide information;

displaying a program terminating time of the currently viewed program;

determining a total program broadcasting time of a currently viewed program by

subtracting a program beginning time from [a] the program terminating time of the currently

viewed program when a user issues a command requesting the displaying of the program

progress time of the currently viewed program;

determining the program progress time by subtracting the beginning time from a current

time;

displaying a display bar representing the total program broadcasting time; and

displaying the display bar so as to indicate a position on the display bar corresponding

to the program progress time.


14.    (AS FILED)  A method of displaying a program progress time as claimed in claim

13, further comprising the step of displaying the display bar by distinguishing between a portion

of the program progress time elapsed and a remaining program progress time portion.


15.    (AS FILED)  A method of displaying a program progress time as claimed in claim

14, further comprising the step of displaying the program progress time on a portion of the

display bar between a starting position of the display bar and a position corresponding to the

program progress time on the display bar.


16.    (AS FILED)  A method of displaying a program progress time as claimed in claim

14, comprising the step of displaying the remaining program progress time on a portion of the

display bar between a position corresponding to the program progress time and an end position

of the display bar.


17.    (TWICE AMENDED)  A method of displaying a program progress time of a

currently viewed program of a signal receiver, the method comprising the steps of:

receiving program guide information including a program schedule having the currently viewed program; and

displaying the program progress time of the currently viewed program <u>simultaneously with the currently viewed program</u> in response to a command from a user to perform a function other than displaying the program progress time upon receipt of the command,

<u>the program progress time including a current time</u>.


18.     (AS FILED)  The method as claimed in claim 17, wherein the command is one of an activating a channel up/down key, determining an occurrence of a remote controller event, and setting of a preset time prior to a program termination of the currently viewed program.


20.     (AS FILED)  The method as claimed in claim 17, further comprising the steps of:

generating a setup display for the user to designate ones of a plurality of commands to function as the command to perform the function other than displaying the program progress time upon receipt of the command; and

receiving inputs from the user designating the ones of the plurality of the commands to function as the command to perform the function other than displaying the program progress time upon receipt of the command.


21.     (AS ONCE AMENDED)  A method of displaying a program progress time of a currently viewed program of a signal receiver, the method comprising:

receiving program guide information including a program schedule having the currently viewed program;

displaying a program progress time of the currently viewed program in response to a

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command from a user to perform a function other than displaying the program progress time

upon receipt of the command; and

displaying next program information of a next program on a same channel as the

currently viewed program at the preset time prior to the program termination of the currently

viewed program.

22.    (AS FILED)  The method as claimed in claim 17, further comprising the steps of:

generating a setup display for the user to designate ones of a plurality of commands to

function as the command to perform the function other than displaying the program progress

time upon receipt of the command, wherein a one of the plurality of commands is to display the

program progress time at a preset time prior to a program termination of the currently viewed

program, and for the user to designate another command to display next program information

on a same channel as the currently viewed program at the preset time;

receiving inputs from the user designating whether the ones of the plurality of the

commands are to function as the command to perform the function other than displaying the

program progress time upon receipt of the command; and

displaying the next program information at the preset time if the first and the another

commands are set by the user positively.

23.    (ONCE AMENDED)  The method as claimed in claim 17, wherein the program

progress time further includes a program beginning time, [a current time,] and a program

termination time of the currently viewed program.

24.    (AS FILED)  The method as claimed in claim 23, wherein the program progress

time further includes a channel number, a name of a broadcast station and a title of the

currently viewed program.


25.    (TWICE AMENDED)  The method as claimed in claim 23, wherein said

displaying step comprises the step of displaying the program beginning time at a start of a

display bar, the program termination time at an end of the display bar, and the current time at a

position of the display bar corresponding to a percentage of time elapsed versus a total time of

the currently viewed program.


26.    (TWICE AMENDED)  A method of displaying a program progress time including

a program beginning time, a current time, and a program terminating time of a currently viewed

program of a signal receiver, the method comprising:

receiving program guide information including a program schedule having the currently

viewed program;

displaying the program progress time of the currently viewed program simultaneously

with the currently viewed program in response to a command from a user to perform a function

other than displaying the program progress time upon receipt of the command wherein said

displaying the program progress time further comprises displaying the beginning time at a start

of a display bar, the program termination time at an end of the display bar, and the current time

at a position of the display bar corresponding to a percentage of time elapsed versus a total

time of the currently viewed program, and displaying a first percentage number of the time

elapsed and a second percentage number of a time remaining versus the total time of the

currently viewed program.


27.    (AS ONCE AMENDED)  A method of displaying a program progress time

including a program beginning time, a current time, and a program terminating time of a

currently viewed program of a signal receiver, the method comprising:

receiving program guide information including a program schedule having the currently viewed program; and

displaying the program progress time of the currently viewed program in response to a command from a user to perform a function other than displaying the program progress time upon receipt of the command wherein said displaying the program progress time further comprises displaying the beginning time at a start of a display bar, the program termination time at end of the display bar, and the current time at a position of the display bar corresponding to a percentage of time elapsed versus a total time of the currently viewed program and the command is to display the program progress time automatically at a preset time prior to a program termination of the currently viewed program.

28.     (TWICE AMENDED) A device for displaying a program progress time, comprising:

a receiving unit to receive a program and a program guide containing a program schedule which includes information on [the] a TV program;

a processor to produce data for displaying the program progress time in response to the command from the user;

a video output unit to mix video data of the program and said data for displaying the program progress time of the program, to output a resulting signal; and

a display to display the resulting signal,

the program progress time including a program beginning time of the TV program.

29.     (AS ONCE AMENDED) A device for displaying a program progress time, comprising:

a receiving unit to receive a TV program and a TV program guide containing a program schedule which includes information on the TV program;

a user interface to enable entry of a command from a user requesting display of the program progress time;

an audio output unit to generate an audio signal of the TV program;

a processor to produce On-Screen-Graphic data for displaying the program progress time in response to the command from the user and based upon the program schedule;

a video output unit to mix video data of the TV program and On-Screen-Graphic data of the TV program, to output a resulting signal; and

a display to display the resulting signal wherein the command is one of an activating a channel-up/down key, determining an occurrence of a remote controller event, and setting of a preset time prior to a program termination of the currently viewed program.


30.    (AS ONCE AMENDED) A device for displaying a program progress time, comprising:

a receiving unit to receive a TV program and a TV program guide containing a program schedule which includes information on the TV program;

a user interface to enable entry of a command from a user requesting display of the program progress time;

an audio output unit to generate an audio signal of the TV program;

a processor to produce On-Screen-Graphic data for displaying the program progress time in response to the command from the user and based upon the program schedule;

a video output unit to mix video data of the TV program and On-Screen-Graphic data of the TV program, to output a resulting signal; and

a display to display the resulting signal wherein said processor produces ON-Screen

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Graphic data for displaying next program information of a next program on a same channel as

the TV program at a preset time prior to a program termination of the TV program.


31.     (ONCE AMENDED) A method of displaying a program progress time of a

currently viewed program comprising:

issuing a user-initiated display command; and

displaying a program terminating time of the currently viewed program [in response to

the display command] at a preset time set by the user prior to a program terminating time of the

currently viewed program.


33.     (ONCE AMENDED) A method of displaying a program progress time on a signal

receiver which receives and processes program guide information containing a program

schedule, comprising the steps of:

storing the program guide information; and

displaying time information about a currently viewed program together with the currently

viewed program on the signal receiver when a user issues a display command set,

the time information including a beginning time, a current time, and a terminating time of

the currently viewed program.


34.     (ONCE AMENDED) A method of outputting a program progress time information

to a display, comprising the steps of:

receiving program guide information containing a program schedule;

storing the program guide information; and

outputting the time information about a currently viewed program together with the

currently viewed program on the display when a user issues a display command set,

the time information including a beginning time, a current time, and a terminating time of the currently viewed program.